

	Application No.	pplication No. Applicant(s)	
Notice of Allowability	10/808,802	YANG ET AL.	
	Examiner	Art Unit	
	Lynne A Gurley	2812	
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1 1. This communication is responsive to the amendment for the allowed claim(s) is/are 1-29. 3. The allowed claim(s) is/are 1-29. 3. The drawings filed on 24 March 2004 are accepted by 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents to the certified copies of the certifi	S IS (OR REMAINS) CLOSED it -85) or other appropriate comm T RIGHTS. This application is 3.313 and MPEP 1308. Siled 3/21/05. The Examiner. Sy under 35 U.S.C. § 119(a)-(d) mave been received. The ave been received in Application in the second in the s	n this application. If not included unication will be mailed in due of subject to withdrawal from issue or (f).	d course. THIS at the initiative
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DA' noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be so	DNMENT of this application.	,	
INFORMAL PATENT APPLICATION (PTO-152) which 6. CORRECTED DRAWINGS (as "replacement sheets") (a) including changes required by the Notice of Drafts 1) hereto or 2) to Paper No./Mail Date	gives reason(s) why the oath o must be submitted. person's Patent Drawing Review	r declaration is deficient. w (PTO-948) attached	
(b) including changes required by the attached Exami Paper No./Mail Date Identifying indicia such as the application number (see 37 Cleach sheet. Replacement sheet(s) should be labeled as such 7. DEPOSIT OF and/or INFORMATION about the department of the property	FR 1.84(c)) should be written on t in the header according to 37 CF	he drawings in the front (not the I R 1.121(d).	
attached Examiner's comment regarding REQUIREME	PROSECUTION OF BIOLOGICAL MATERIAL MATE	ERIAL MUST DE SUDMITTED. N DLOGICAL MATERIAL.	ote the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-94) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date	48) 6. ☐ Interview S Paper No.	formal Patent Application (PTO ummary (PTO-413), /Mail Date Amendment/Comment	-152)
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	sit 8. ⊠ Examiner's 9. □ Other	Statement of Reasons for Allow	/ance
		LYNNE A. GURLEY PRIMARY PATENT EVANUA	

TC 2800, AU 2812

EXAMINER'S AMENDMENT

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In claim 1, line 18, --a—has been inserted after "removing", before "portion".

Reasons For Allowance

- 2. The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach, either alone or in combination, the steps of the claimed invention, as amended by the amendment filed on 3/21/05.
- 3. The closest prior art of record, Tsai et al., US 2005/0054194, found upon an updated search, fails to teach or to suggest, the step of "said trench-defining shape exposing a second portion of said stack of insulator layers". Instead, a thin layer of resist remains over the second portion of the stack of insulator layers, so that the trench-defining layer does not expose it (figure 1D, [0022]). Tsai does teach an antireflection layer 16, which may be one BARC or two layers in succession of BARC/etch stop [0020]. The etch stop layer materials disclosed include capping layer materials, including silicon nitride.
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne A. Gurley whose telephone number is 571-272-1670. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne A. Gurley

Primary Patent Examiner TC 2800, Art Unit 2812

LAG April 20, 2005